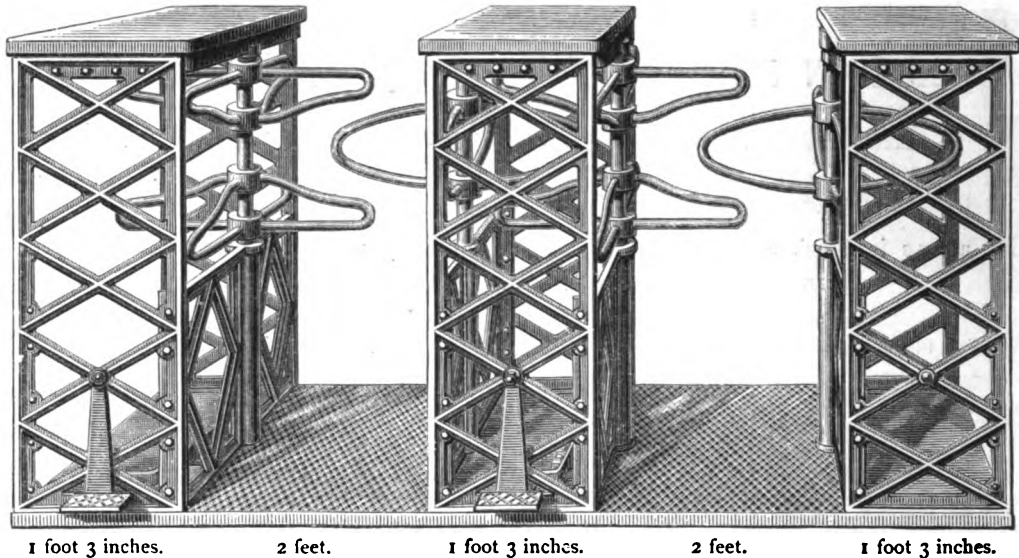


BEZER'S
PATENT REVERSIBLE DOUBLE TURNSTILE,
 FOR TOLL BRIDGES, PIERS, PLACES OF PUBLIC AMUSEMENT, &c.
 ALSO FOR TRAMCARS AND OMNIBUSES.



This Turnstile consists of two vertical shafts, each carrying arms. The shafts are geared together so that one cannot revolve without the other. It secures, amongst others, the following advantages :

The arms being only 14 inches long, instead of 18 inches as in an ordinary four-armed single Turnstile, and the following-up arms closing round from each side of the person passing, instead of only from one side, it effectually prevents two persons passing at the same time.

The arms being shorter, the circle described is less than that of a single Turnstile, thereby admitting of a more rapid ingress and egress.

The locking gear is reversible, so that persons can enter and leave through the same Turnstile, but when the Turnstile has been partially opened, it cannot be reversed until that entry has been recorded.

By this arrangement one of these Turnstiles answers the purpose of two ordinary Turnstiles. This is a special advantage in places where the passages are too narrow to admit of the ordinary entry and exit Turnstile, as for instance the approaches to the Pit and Gallery of Theatres ; also in places where on special occasions many thousands of people assemble. On such occasions, at one time during the day there might be a continual flow of entries, when all the Turnstiles could be used as entrances ; and throughout the day any Turnstile for entry and exit. Towards the end of the day, when no further entries would be made, the keepers could set the lock of each Turnstile, making them all exits, and leave them for persons to pass out at their leisure.

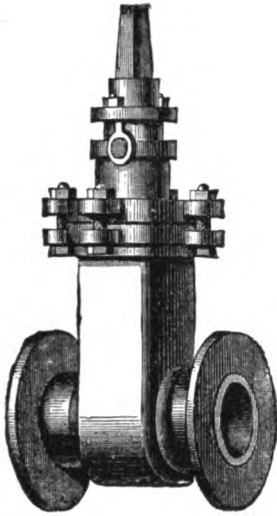
The Reversible Lock can be fitted to Turnstiles now in use.

The Inventor having devoted some years' study to the system of check by Turnstile, has designed instead of, or in addition to, the ordinary counter, a registering apparatus, the main principle of which is that the time of each entry and exit is automatically recorded.

The attention of Tramway and Omnibus Companies is invited to his apparatus for recording the place of entry and exit of each passenger, for which a light design of Turnstile and Platform has been made to suit the vehicles now in use.

Upon application, stating the number of entrances required, Prices will be forwarded.

WHIELDON AND COOKE,
 ENGINEERS,
 COLLINGE ENGINEERING WORKS, WESTMINSTER BRIDGE ROAD, S.E.



WATER MAIN SLUICE VALVES, FOR HIGH OR LOW PRESSURE.

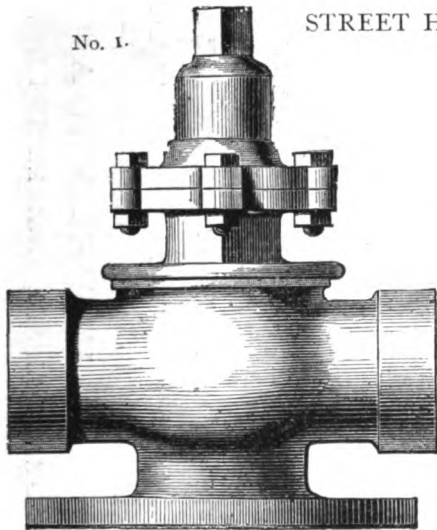
These Sluice Valves, tested to bear a pressure of 400 feet head of water, are double-faced, having two gun-metal faces on body of Sluice and two on Valve, and are provided with gun-metal screws and nuts.

PRICES OF SLUICE VALVES WITH FLANGED OR SOCKETED ENDS.

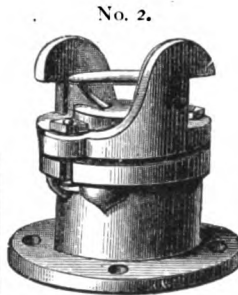
Inches	1½	2	2½	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20	24	30	36
Price	31/6	35/	44/	53/	70/	90/	110/	133/	160/	187/	210/	250/	265/	355/	425/	440/	480/	575/	685/	910/	1165/	1820/
*	5/3	6/	7/3	8/9	11/	13/9	17/6	22/6	27/6	33/	37/6	43/	48/6	60/	76/	95/	121/	136/	177/	243/	33c/	396/

* EXTRA, SPIGOT AND SOCKET ENDS.

STREET HYDRANTS AND FIRE COCKS, AS SUPPLIED TO THE ROYAL ARSENAL, WOOLWICH.



No. 1.



No. 2.



No. 3.

No. 1. This simple and compact Two-Way Fire Cock, with all working parts well protected, is made of any required size, from 1½ inch diameter of outlet upwards.

PRICES WITH DOUBLE (OUTLET AND BRIGADE GAUGE NOZZLE COMPLETE.

1½ inch, £3 3s. | 2 inches, £5 5s. | 2½ inches, £7 10s. | 3 inches, 15s.
Prices of other sizes on application.

No. 2 is a cheap Hydrant, being made entirely of Iron, with a floating ball to close orifice when not in use.

PRICE OF HYDRANT, 15s. | SURFACE BOX, 7s. 6d. | STAND PIPE, WITH CAP AND SCREW, 70s.

No. 3. Two-Way High-Pressure Hydrant, specially designed for Her Majesty's Government, bushed with gun metal, and screwed to Brigade Gauge, with cap and chain complete. Prices on application.

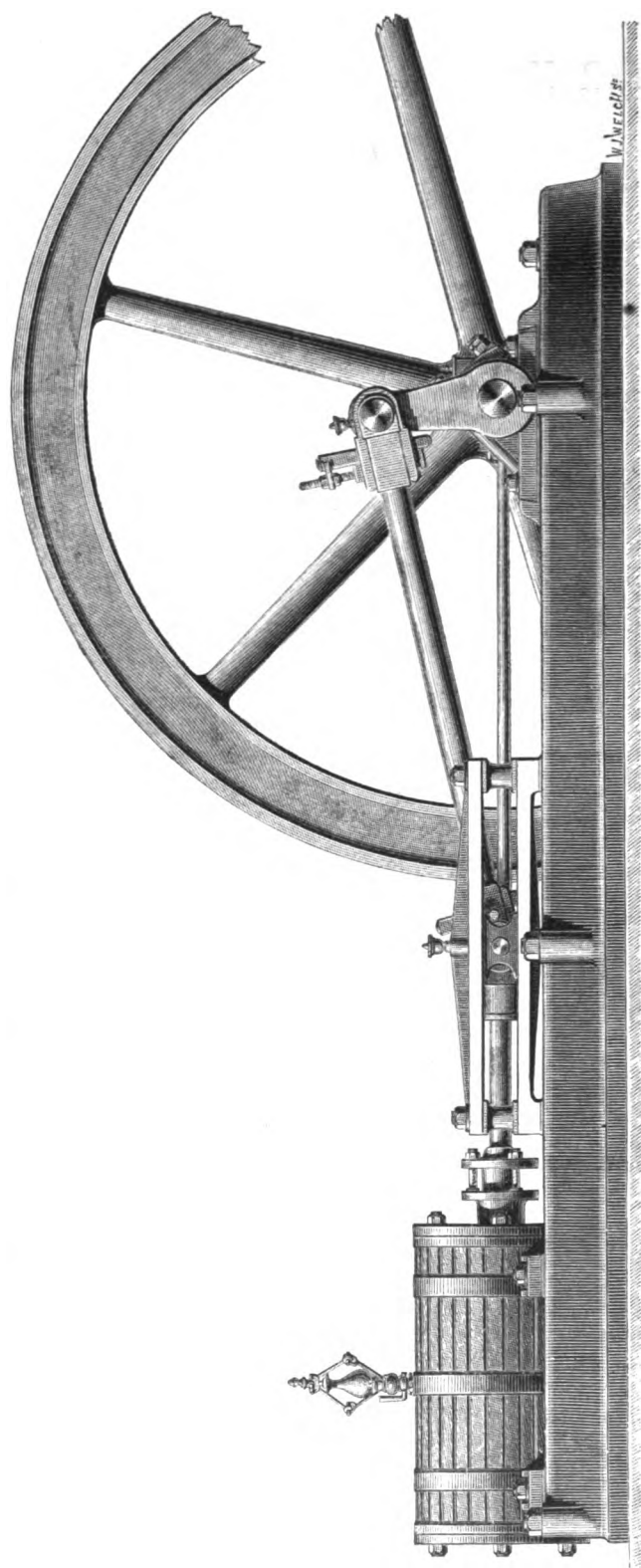
WHIELDON AND COOKE,

HYDRAULIC ENGINEERS,

COLLINGE ENGINEERING WORKS, WESTMINSTER BRIDGE ROAD, S.E.

3 x 2

HORIZONTAL HIGH-PRESSURE FIXED ENGINES.



FITTED WITH PORTER'S GOVERNOR, FEED-PUMP, AND EXPANSION VALVE,

PISTON ROD AND THROTTLE-VALVE SPINDLE OF STEEL;

BRASS BEARINGS, AND SOLID CAST-IRON BED PLATE.

THE WHOLE OF THE BEST WORKMANSHIP, MATERIAL, AND FINISH.

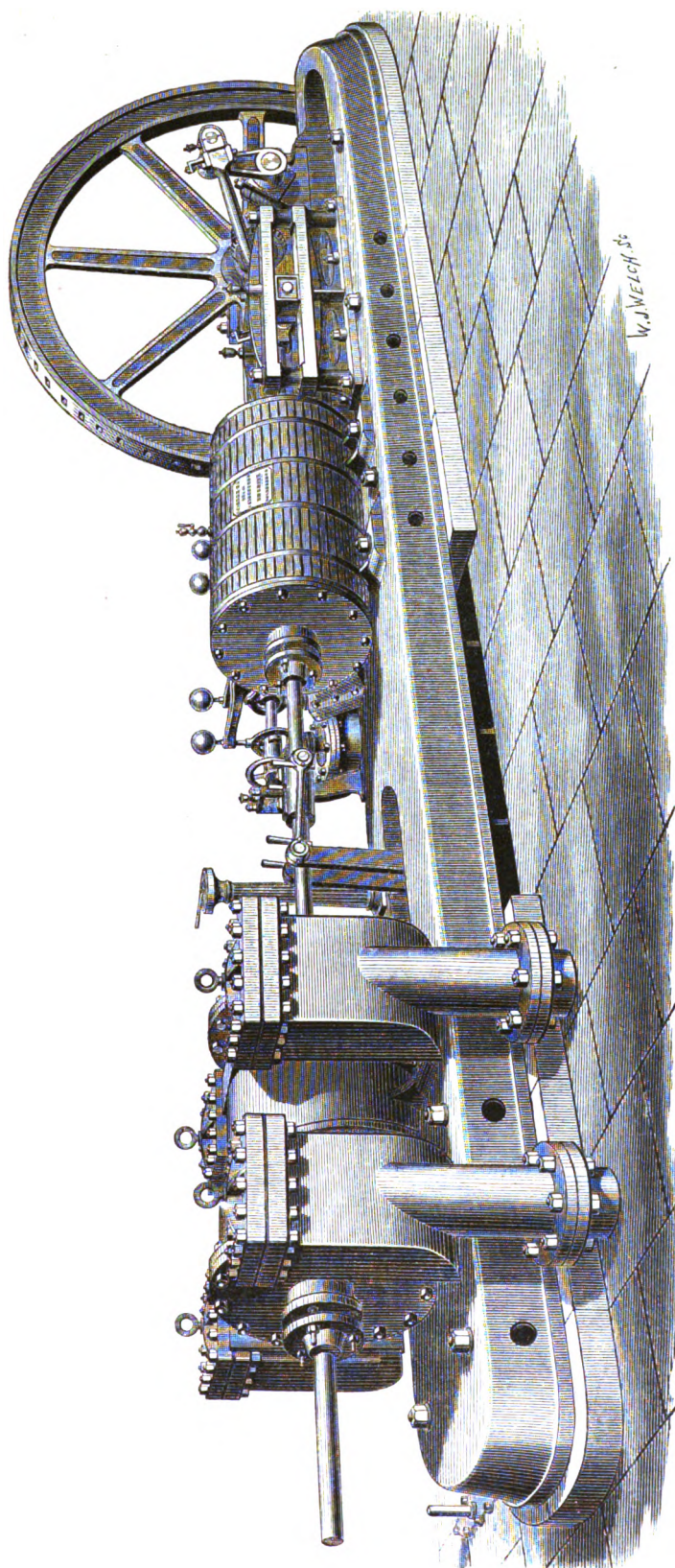
PRICES ON APPLICATION.

WHIELDON AND COOKE,

HYDRAULIC ENGINEERS, COLLINGE ENGINEERING WORKS, WESTMINSTER BRIDGE ROAD, LONDON.

HYDRAULIC PUMPING MACHINERY,

FOR WATER AND SEWAGE WORKS.

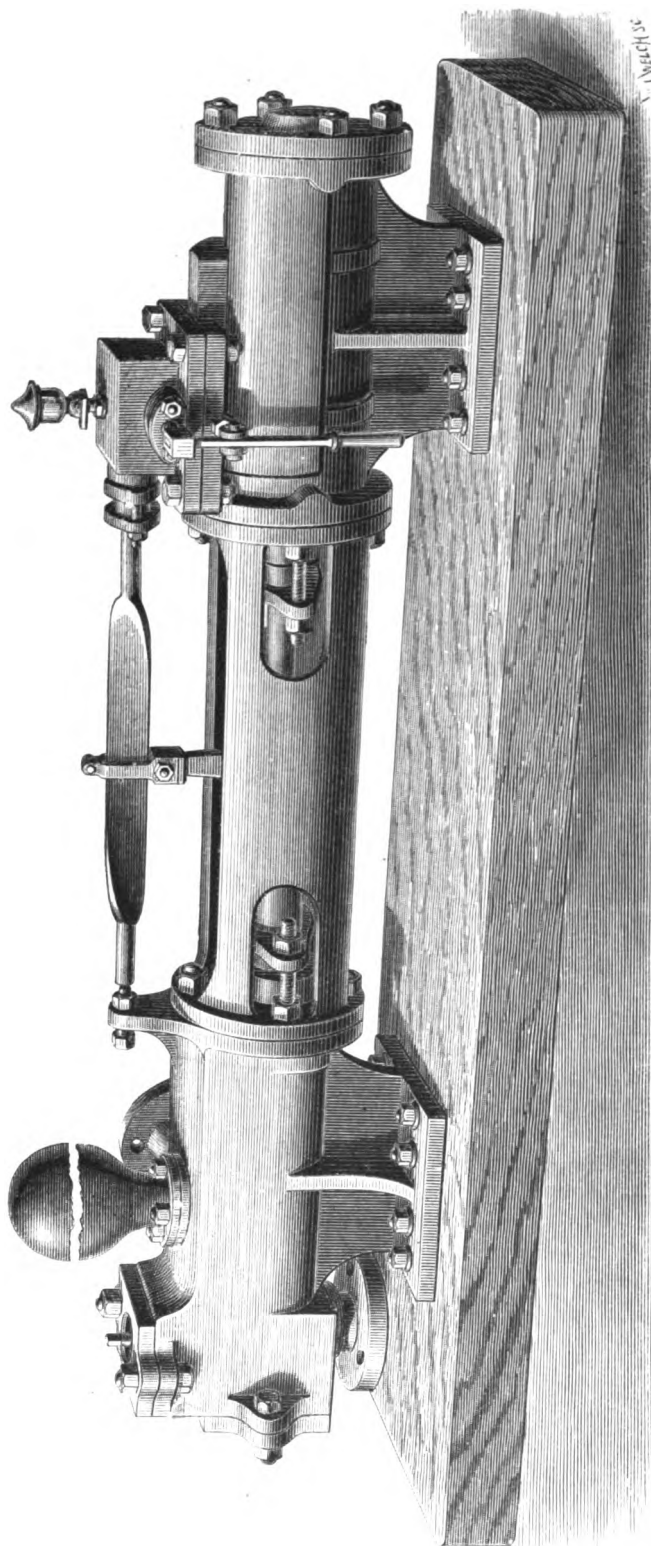


THE ABOVE IS A VIEW OF THE PUMPING MACHINERY ERECTED BY WHIELDON AND COOKE FOR THE TOTTENHAM LOCAL BOARD OF HEALTH, FOR RAISING THE SEWAGE OF THAT DISTRICT AT THE RATE OF 170,000 GALLONS PER HOUR.

WHIELDON AND COOKE,

HYDRAULIC ENGINEERS, COLLINGE ENGINEERING WORKS, WESTMINSTER BRIDGE ROAD, LONDON.

THE "COLLIDGE" STEAM PUMP.



This Steam Donkey-Pump is of extremely simple construction, having no rotating parts or complicated valve-gear. It is a double-acting Pump, worked direct by a steam piston, the slide valve of which is actuated by a simple contrivance reducing the number of parts.

From its construction it will be seen that this Pump will work equally well in any position, horizontal, vertical, or oblique, and is therefore well adapted for feeding Boilers on board ship as well as on land. It can be applied to lifting water from wells, and in fact anywhere where water has to be forced or lifted, and where steam can be employed. It can be started at any position of stroke.

The various sizes are numbered according to the cubic capacity of the pump barrel; that is to say, the number of the Pump is the number of gallons delivered during each ten strokes of the piston, so that by multiplying the number of strokes per minute by the number of the Pumps, and dividing by ten (in other words pointing off the last figure) the number of gallons pumped per minute can at once be obtained.

PARTICULARS AND PRICES.

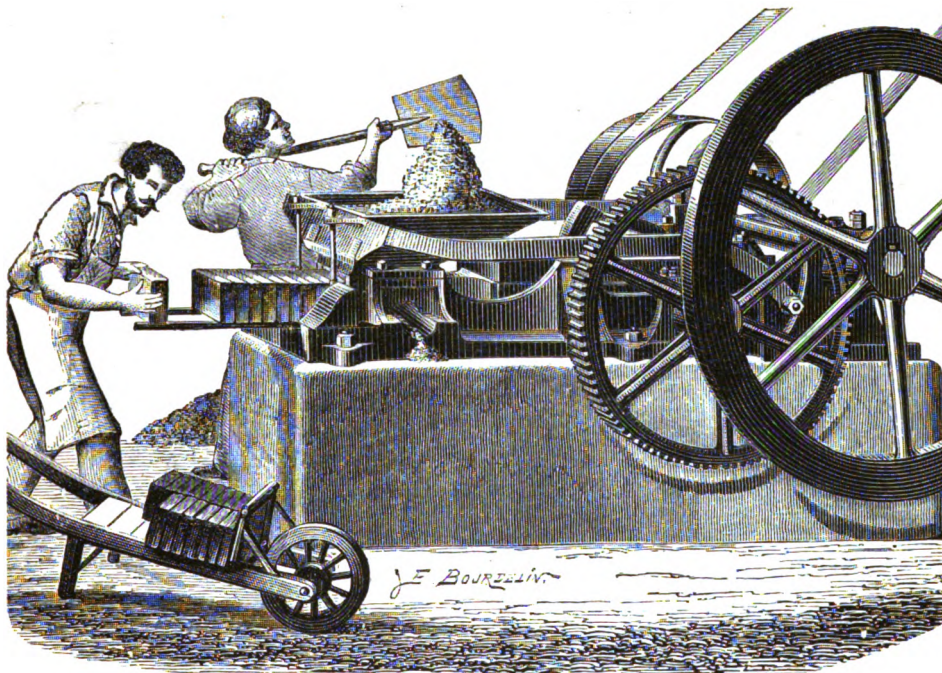
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Number of Pump	2	2	4	4	6	6	10	10	12	12	12	12	16	16	19	19	23	23
Diameter of Water Cylinder	2"	2"	2 1/2"	2 1/2"	3 1/4"	3 1/4"	4"	4"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	5"	5"	5 1/2"	5 1/2"	6"	6"
Diameter of Steam Cylinder	3"	4"	3 1/4"	4"	5"	5"	6"	6"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	7 1/2"	7 1/2"	8"	8"	8 1/2"	8 1/2"
Stroke..	10"	10"	10"	10"	10"	10"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
Price ..	£18	£19	£20	£22	£24	£26	£28	£31	£34	£37	£40	£43	£46	£49	£52	£55		

WHIELDON AND COOKE,

COLLIDGE ENGINEERING WORKS, WESTMINSTER BRIDGE ROAD, S.E.

MACHINE FOR THE MANUFACTURE OF BRICKS, TILES, COMPRESSED FUEL, AND CONCRETE.

DURAND AND MARAIS' PATENT.



By means of this Machine almost any kind of Clay or Earth, without previous preparation, introduced into the Hopper, is, by being subjected to considerable pressure, instantly converted into Bricks of great solidity, with sharp angles and firm, clean edges, and very nearly ready for the Kiln.

This Machine cannot be overstrained, as provision is made whereby the surplus Clay escapes through an opening in the face of the Compressing Plunger, so that the density of the Bricks, when they leave the mould, is the same throughout.

The different parts of the Machine, being simple and very strong, work with great smoothness and cannot get out of order, except by ordinary tear and wear. The removal of the Bricks from the mould is effected gently by a sliding movement, and they consequently adhere neither to each other nor to the Plunger.

This Machine is also applicable to the preparation of compressed fuel, or indeed to the moulding of any substances capable of agglomeration.

When required, a Self-Feeding Apparatus can be attached to each Machine.

The Moulds can be varied to suit any size or shape required.

The Machine is self contained, requiring no foundation.

A couple of Horses, or an Engine of equal power, with one unskilled labourer and two boys, can work the Machine, producing in ten hours upwards of 10,000 Bricks. Weight, about two tons.

PRICE OF THE MACHINE, INCLUSIVE OF ROYALTIES £125

EXTRAS.

	£	s.	d.
Self-Feeding Apparatus, about	10	0	0
Duplicate Brass Moulds for common Bricks, each	3	10	0
Horse or Bullock Gearing with Cast-Iron Bed Plate, Crown Wheel and Bevel } Wheel Shaft making ten revolutions of the Machine to one of the Horse Wheel, and strong enough for two Horses or six Bullocks	34	0	0
A 2 Horse-power Vertical Engine and Boiler	90	0	0
A 2½ Horse-power Portable Engine, complete	125	0	0
Wheels and Axles for moving the Machine from field to field	7	0	0

WHIELDON AND COOKE,
COLLINGE ENGINEERING WORKS, WESTMINSTER BRIDGE ROAD, S.E.